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Driving Bangalore Ahead

BANGALORE METRO RAIL CORPORATION LIMITED

TENDER DOCUMENT

Long Term Comprehensive Annual Maintenance Contract (CAMC) of 422 Nos of Johnson make Escalators in Phase-I and Phase-II Extension Metro Stations

TENDER NO: BMRCL/2023-24/SE0004

VOLUME 02
FINANCIAL PACKAGE

JAN - 2024

BANGALORE METRO RAIL CORPORATION LIMITED
III Floor, BMTC Complex, K H Road, Shanthinagar
Bangalore – 560 027 Karnataka

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VOLUME 2: FINANCIAL PACKAGE

BILL OF QUANTITIES (PRICING DOCUMENT)

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BILL OF QUANTITY

Tender no. BMRCL/2023-24/SE0004

Name of Work: Long Term Comprehensive Annual Maintenance Contract (CAMC) of 422 No Johnson make Escalators in Phase-I and Phase-II Extension Metro Stations

(I) Schedule A: CAMC Charges

1. BILL OF QUANTITY UNDER 2 ESCAL-DM - CONTRACT

Name of CAMC Work: COMPREHENSIVE ANNUAL MAINTENANCE CONTRACT OF 194 NOS. OF ESCALATORS (JOHNSON AND SJEC CONSORTIUM MAKE) OF PHASE-I STATIONS

Sl. No (a)	Brief Description of work (b)	No. of Escalators (c)	No. of Months (d)	Total Escalator Months (e)	Unit Rate/ Escalator/ Month (INR)	Total Amount (INR)
					In figures (f)	In figures (g)=(f) X (e)
1	**CAMC Charges of 194 Escalators in Phase-I Stations**					
	Age of Escalator					
a)	CAMC cost for year-1 (2024)	**194**				
	12th Year	21	12	252		
	9th Year	50	12	600		
	8th Year	29	12	348		
	7th Year	23	12	276		
	6th Year	65	12	780		
	5th Year	6	12	72		
	CAMC cost for year-1 (2024)	**194**	**Total Amount (2024) - (a)**			

b)	CAMC cost for year-2 (2025)	**194**				
	13th Year	21	12	252		
	10th Year	50	12	600		
	9th Year	29	12	348		
	8th Year	23	12	276		
	7th Year	65	12	780		
	6th Year	6	12	72		
	CAMC cost for year-2 (2025)	**194**	**Total Amount (2025) - (b)**			
c)	CAMC cost for year-3 (2026)	**194**				
	14th Year	21	12	252		
	11th Year	50	12	600		
	10th Year	29	12	348		
	9th Year	23	12	276		
	8th Year	65	12	780		
	7th Year	6	12	72		
	CAMC cost for year-3 (2026)	**194**	**Total Amount (2026) - (C)**			

d)	CAMC cost for year-4 (2027)	**194**				
	15th Year	21	12	252		
	12th Year	50	12	600		
	11th Year	29	12	348		
	10th Year	23	12	276		
	9th Year	65	12	780		
	8th Year	6	12	72		
	CAMC cost for year-4 (2027)	**194**	**Total Amount (2027) - (d)**			
e)	CAMC cost for year-5 (2028)	**194**				
	16th Year	21	12	252		
	13th Year	50	12	600		
	12th Year	29	12	348		
	11th Year	23	12	276		
	10th Year	65	12	780		
	9th Year	6	12	72		
	CAMC cost for year-5 (2028)	**194**	**Total Amount (2028) - (e)**			

f)	CAMC cost for year-6 (2029)	**194**				
	17th Year	21	12	252		
	14th Year	50	12	600		
	13th Year	29	12	348		
	12th Year	23	12	276		
	11th Year	65	12	780		
	10th Year	6	12	72		
	CAMC cost for year-6 (2029)	**194**	**Total Amount (2029) - (f)**			
g)	CAMC cost for year-7 (2030)	**194**				
	18th Year	21	12	252		
	15th Year	50	12	600		
	14th Year	29	12	348		
	13th Year	23	12	276		
	12th Year	65	12	780		
	11th Year	6	12	72		
	CAMC cost for year-7 (2030)	**194**	**Total Amount (2030) - (g)**			

h)	CAMC cost for year-8 (2031)	**194**				
	19th Year	21	12	252		
	16th Year	50	12	600		
	15th Year	29	12	348		
	14th Year	23	12	276		
	13th Year	65	12	780		
	12th Year	6	12	72		
	CAMC cost for year-8 (2031)	**194**	**Total Amount (2031) - (h)**			
i)	CAMC cost for year-9 (2032)	**194**				
	20th Year	21	12	252		
	17th Year	50	12	600		
	16th Year	29	12	348		
	15th Year	23	12	276		
	14th Year	65	12	780		
	13th Year	6	12	72		
	CAMC cost for year-9 (2032)	**194**	**Total Amount (2032) - (i)**			

j)	CAMC cost for year-10 (2033)	194				
	21th Year	21	12	252		
	18th Year	50	12	600		
	17th Year	29	12	348		
	16th Year	23	12	276		
	15th Year	65	12	780		
	14th Year	6	12	72		
	CAMC cost for year-10 (2033)	194	**Total Amount (2032) - (j)**			
	Grand Total:			**23,280**	(a)+ (b) + (c) + (d) + (e) + (f) + (g) +(h) + (i) + (j)	

2. BILL OF QUANTITY UNDER 5 ESCAL-DM - CONTRACT

Name of CAMC Work: COMPREHENSIVE ANNUAL MAINTENANCE CONTRACT OF 29 NOS. OF ESCALATORS (JOHNSON AND SJEC CONSORTIUM MAKE) OF PHASE-II STATIONS

Sl. No (a)	Brief Description of work (b)	No. of Escalators (c)	No. of Months (d)	Total Escalator Months (e)	Unit Rate/ Escalator/ Month (INR)	Total Amount (INR)
					In figures (f)	In figures (g)=(f) X (e)
2	**CAMC Charges of 29 Escalators in Phase-I Stations**					
	Age of Escalator					
a)	CAMC cost for year-1 (2024)	**16**				
	5th Year	1	8	8		
		2	5	10		
		2	4	8		
		1	4	4		
		9	2	18		
		1	1	1		
	CAMC cost for year-1 (2024)	**16**	**Total Amount (2024) – (a)**			
b)	CAMC cost for year-2 (2025)	**29**				

	6th Year	16	12	192		
	5th Year	1	12	12		
		5	12	60		
		4	4	16		
		2	4	8		
		1	4	4		
	CAMC cost for year-2 (2025)	**29**	**Total Amount (2025) – (b)**			
c)	CAMC cost for year-3 (2026)	**29**				
	7th Year	16	12	192		
	6th Year	13	12	156		
	CAMC cost for year-3 (2026)	**29**	**Total Amount (2026) – (c)**			
d)	CAMC cost for year-4 (2027)	**29**				
	8th Year	16	12	192		
	7th Year	13	12	156		
	CAMC cost for year-4 (2027)	**29**	**Total Amount (2027) – (d)**			
e)	CAMC cost for year-5 (2028)	**29**				

	9th Year	16	12	192		
	8th Year	13	12	156		
	CAMC cost for year-5 (2028)	**29**	**Total Amount (2028) – (e)**			
f)	CAMC cost for year-6 (2029)	**29**				
	10thYear	16	12	192		
	9thYear	13	12	156		
	CAMC cost for year-6 (2029)	**29**	**Total Amount (2029) – (f)**			
g)	CAMC cost for year-7 (2030)	**29**				
	11th Year	16	12	192		
	10th Year	13	12	156		
	CAMC cost for year-7 (2030)	**29**	**Total Amount (2030) – (g)**			
h)	CAMC cost for year-8 (2031)	**29**				
	12th Year	16	12	192		
	11th Year	13	12	156		
	CAMC cost for year-8 (2031)	**29**	**Total Amount (2031) – (h)**			

i)	CAMC cost for year-9 (2032)	**29**					
	13th Year	16	12	192			
	12th Year	13	12	156			
	CAMC cost for year-9 (2032)	**29**	**Total Amount (2032) – (i)**				
j)	CAMC cost for year-10 (2033)	**29**					
	14th Year	16	12	192			
	13th Year	13	12	156			
	CAMC cost for year-10 (2033)	**29**	**Total Amount (2033) – (j)**				
	Grand Total			**3125**	(a)+ (b) + (c) + (d) + (e) + (f) + (g) +(h) + (i) + (j)		

3. BILL OF QUANTITY UNDER 6 ESCAL-DM - CONTRACT

Name of CAMC Work: COMPREHENSIVE ANNUAL MAINTENANCE CONTRACT OF 199 NOS. OF ESCALATORS (JOHNSON AND SJEC CONSORTIUM MAKE) OF PHASE-II EXTN. STATIONS

Sl. No (a)	Brief Description of work (b)	No. of Escalators (c)	No. of Months (d)	Total Escalator Months (e)	Unit Rate/ Escalator/ Month (INR) In figures (f)	Total Amount (INR) In figures (g)=(f) X (e)
3	**CAMC Charges of 199 Escalators in Phase-II Extn. Stations**					
	Age of Escalator					
a)	CAMC cost for year-1 (2024)	0	0	0		
	CAMC cost for year-1 (2024)	0	**Total Amount (2024) – (a)**			
b)	CAMC cost for year-2 (2025)	0	0	0		
	CAMC cost for year-2 (2025)	0	**Total Amount (2025) – (b)**			
c)	CAMC cost for year-3 (2026)	0	0	0		
			Total Amount (2026) – (c)			
d)	CAMC cost for year-4 (2027)	0	0	0		
	CAMC cost for year-4 (2027)	0	**Total Amount (2027) – (d)**			
e)	CAMC cost for year-5 (2028)	**86**				
e)	7th Year	40	12	480		
		46	5	230		

	CAMC cost for year-5 (2028)	**86**	**Total Amount (2028) – (e)**					
f)	CAMC cost for year-6 (2029)	**88**						
	8th Year	86	12	1032				
	7th Year	2	8	16				
	CAMC cost for year-6 (2029)	**88**	**Total Amount (2029) – (f)**					
g)	CAMC cost for year-7 (2030)	**199**						
	9th Year	86	12	1032				
	8th Year	2	12	24				
	7th Year	101	10	1010				
		6	3	18				
		2	3	6				
		1	4	4				
		1	3	3				
	CAMC cost for year-7 (2030)	**199**	**Total Amount (2030) – (g)**					
h)	CAMC cost for year-8 (2031)	**199**						
	10th Year	86	12	1032				
	9th Year	2	12	24				

	8th Year	111	12	1332						
	CAMC cost for year-8 (2031)	**199**	**Total Amount (2031) – (h)**							
i)	CAMC cost for year-9 (2032)	**199**								
	11th Year	86	12	1032						
	10th Year	2	12	24						
	9th Year	111	12	1332						
	CAMC cost for year-9 (2032)	**199**	**Total Amount (2032) – (i)**							
j)	CAMC cost for year-10 (2033)	**199**								
	12th Year	86	12	1032						
	11th Year	2	12	24						
	10th Year	111	12	1332						
	CAMC cost for year-10 (2033)	**199**	**Total Amount (2033) – (j)**							
	Grand Total			**11019**		(a)+ (b) + (c) + (d) + (e) + (f) + (g) +(h) + (i) + (j)				

(II) Schedule B: Major component replacement after 15 years of service

Cost for Major Component Replacement after Completing 15 Years of Service Life							
Sl No (a)	**Component /Spare (b)**	**Service Life (Years) from the date of Handing Over (c)**	**No of Major component replacement on condition basis (d)**	**Unit Price (e)**	**Unit (f)**	**Qty (g)**	**Total (h)= (e) x (g)**
1	Handrail drive system	15	70		No	70	
2	Step Chain and Step Axle	15	70		Set	70	
3	Tension carriage assembly	15	70		No's	70	
4	Main drive assembly	15	40		No's	40	
5	Emergency brake assembly	15	70		No's	70	
Grand Total (Excluding GST):							

Summary of Quote (A + B)		
Sl No	**Description**	**Total Tender Price (In Rs.)**
1. Schedule-A:		
1	2 ESCAL-DM-194 Nos	
2	5 ESCAL-DM- 29 Nos	
3	6 ESCAL-DM- 199 Nos	
	Total:	
2. Schedule-B:		
1	Spares Charges of Escalators Completing 15 Years of Service	
Grand Total (A+B)(Excl. GST):		

The **Tender Total** comprises:

Indian Rupees: ..... (in figures)

..... (in words)

Note:

1. Unit rates and prices shall be quoted by the Tenderer in Indian Rupees only.
2. The rates and prices quoted for each item shall be inclusive of all applicable taxes and duties **excluding CGST & SGST**. BMRCL shall pay the applicable CGST & SGST as invoiced by the contractor to BMRCL. The quoted price also includes insurance, transportation up to destination, handling, installation, royalties & any other charges leviable and payable by the Contractor to the authorities and including Tax to be deducted at source.
3. Income tax deduction:

   Income tax (TDS) shall be deducted as per the prevailing rate and remitted to the Income Tax authorities and Form 16 shall be furnished by BMRCL in proof of remittance to IT Department. For availing lower deduction of Income Tax, necessary certificate for each financial year issued by the Income Tax Authority shall be furnished by the Contractor, failing which IT at the maximum rate will be deducted.
4. The Contractor shall maintain complete records in respect of payments made by them towards IGST/GST payable to various authorities (except Income Tax or Corporate Tax). The detailed records shall however remain open for inspection by the Employer/ Engineer at any time and copies of the records shall be furnished as required by the Employer.
5. The Contractor shall be solely responsible for discharging all the statutory payments to the authorities concerned including custom duty, IGST and GST.
6. The Price quoted by the Tenderer shall be fixed for the duration of the Contract and shall not be subject to adjustment on any account, unless provided otherwise in the General Conditions of Contract/Special Conditions of contract.
7. Item for which no rate or price has been entered in will not be paid for by the Employer when executed and shall be deemed covered by the other rates and prices in the Bill of Quantities (refer: ITT Clause 11.2 and GCC Clause 44.2).
8. Where there is a discrepancy between the rate in figures and words, the lower of the two will govern. [ITT Clause 24.1(a)]
9. Where there is a discrepancy between the unit rate and the line item total resulting from multiplying the unit rate by quantity, the unit rate quoted shall govern [ITT Clause 24.1(b)]
10. BMRCL will consider the above prices for evaluation of Tender only.
11. 'Station wise details of the Escalator is enclosed in 'Annexure -1 to Bill of Quantities'.

SIGNATURE OF THE TENDERER

Annexure -1 to Bill of Quantities

Section wise details of the Escalator

A. 194 Escalator: 2 ESCAL-DM

Sl. No.	Section	No. of Escalators under CAMC	Period of AMC	
			From	To
1	Reach-1	21	01.01.2024	31.12.2033
2	Reach-3, 3A	41		
3	Reach-3A	1		
4	Reach-3, 3A	4		
5	Reach-1	1		
6	Reach-1	2		
7	Reach-1	1		
8	Reach-1	1		
9	Reach-3B	9		
10	Reach-2	19		
11	UG-2	21		
12	UG-1	2		
13	UG-2	2		
14	UG-1	23		
15	Reach-4	15		
16	Reach-4	11		
17	UG-1	13		
18	UG-1	1		
19	Reach-2	1		
20	UG-1	2		
21	UG-2	1		
22	UG-1	2		
Total		194		

B. 29 Escalator: 5 ESCAL-DM

No.	Section	No. of Escalators under CAMC	Period of AMC	
			From	To
1	UG-2	1	22.05.2024	31.12.2033
2	R-2	2	31.08.2024	31.12.2033
		2	13.09.2024	31.12.2033
		1	30.09.2024	31.12.2033
3	R-1	2	29.11.2024	31.12.2033

4	R-4A	3	29.11.2024	31.12.2033
5	R-4	4	29.11.2024	31.12.2033
6	UG-1	1	11.12.2024	31.12.2033
7	UG-1	1	13.01.2025	31.12.2033
8	R-4A	4	29.01.2025	31.12.2033
9	UG-1	1	29.01.2025	31.12.2033
10	R-1	2	09.09.2025	31.12.2033
11	UG-1	2	09.09.2025	31.12.2033
12	R-3	2	16.09.2025	31.12.2033
13	R-3B	1	18.09.2025	31.12.2033
Total:		**29**		

C. 199 Escalator: 6 ESCAL-DM

Sl. No.	Section	No. of Escalators under CAMC	Period of AMC	
			From	To
1	R-4 Extn.	40	15.01.2028	31.12.2033
2	R-2 Extn.	46	30.08.2028	31.12.2033
		2	25.05.2029	31.12.2033
3	R-1 Extn.	101	26.03.2030	31.12.2033
		6	09.10.2030	31.12.2033
4	R-2 Extn.	2	09.10.2030	31.12.2033
5	R-1	1	12.09.2030	31.12.2033
		1	16.10.2030	31.12.2033
Total		**199**		

Total Escalators (A+B+C): 422 Nos